APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2

GINZBURG P. Yourney

Clinical groups of respiratory insufficiency in tuberculosis. Probl. tub. no.6:24-33 N-D 154. (MIRA 8:1)

1. Iz Hoskovskogo gorodskogo nauchno-issledovatel'skogo tuberkulesnogo instituta (dir.-prof. V.L.Hynis)

(TUHERCULOSIS, physiology resp. insuff., classif.)

resp. insuit., diabett.)
(RHSPIRATION
insuff., in tuberc., classif.)

VYSOKOVA, T.M.; EYNIS, N.F.; GINZBERG, R.Yo.

Changes in gas exchange in pulmonary tuberculosis during therapy with PAS alone and in combination with streptomycin. Probl.tub. no.3:14-19 My-Je '55. (MIRA 8:8)

1. Iz Moskovskego gorodskogo nauchno-issledovatel skogo instituta (dir.-prof. F.A.Mikhaylov, nauchnyy rukovaditel -prof. V.L.Mynis).

(OXYGMI, metabolism.

in pulm. tuberc., eff. of PAS ther. alone & with streptomycir.)

(TUBERCULOSIS, PULMONARY, metabolism in, oxygen, eff. of PAS ther., alone & with streptomycin)

(PARA-AMINOSALICYLIC ACID, ther. use, alone & with streptomycin, tuberc., pulm., eff. on cxygen metab.)

(STREPTOHYCII, ther. use,

tuberc., pulm., with PAS, eff. on oxygen metab.)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-00513R0005151004-2 CIA-RDP86-0051004-2 CIA-RDP86-0051004-2 CIA-RDP86-0051004-2 CIA-RDP86-0051004-2 CIA-RDP86-0051004-2 CIA-RDP86-0051004-2 CIA-

EYNIS, V.L.; GINZBERG, R.Ye.; VYSOKOVA, T.M.

Compensatory processes in treating pulmonary tuberculosis. Probl. tub. no.6:9-16 M-D 155. (MIRA 9:2)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo tuberkuleznogo instituta (dir. V.F. Chernyshev, nauchnyy rukovoditel'-prof. V.L. Hynis)

(TUBERCULOSIS, PULMONARY, ther.

compensation of functions)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

GINZBERG, R.Ye.; AMIANTOVA, M.A.

Study of the functional condition of tuberculosis patients by the respiratory pause method under control of a hemoxometer. Probl. tub. 36 no.8:51-57 '58. (MIRA 12:7)

1. Is Moskovskoy gorodskoy tsentral'noy klinicheskoy tuberkulesnoy bol'nitsy (glavnyy vrach - prof. V. L. Mynis)
(TUBERCULOSIS) (BLOOD--OXYGEN CONTENT)

BINIS, V.L.; GINZBERG, R.T., AMIANTOVA, M.A.

Functional restoration of respiration and blood circulation after surgical treatment of tuberculosis of the lungs. Probl. tub. 39 no.2:22-28 '61. (MIRA 14:3)

1. Iz Instituta tuberkuleza (dir. - chlen-korrespondent AMN SSSR prof. N.A. Shmelev) AMN SSSR i Moskovskoy gorodskoy tsentral'noy klinicheskoy tuberkuleznoy bol'nitsy (glavnyy vrach - maslumhennyy deyatel' nauki prof. V.L. Hynis).

(LUNGS-SURGERY) (RESPIRATION) (BLOOD-CIRCULATION)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

BLAUHT, V.P. [Blount, W.P.]; GINZBURG, R.Z. [translator]; GINZBURG, P.Z., [translator]; PIGAREV, W.V., kand.sel'skokhozyaystvennykh nauk, red.; AKIMOVA, L.D., red.; CHEBYSHEVA, Ye.A., tekhn.red.

[Hen batteries, Translated from the English] Kletochnoe soderzhanie kur. Perevod s angliiskogo R.Z.Ginsburg, P.Z.Ginzburga. Pod red. N.V.Pignreva. Moskva, Pishchepromizdat, 1957. 183 p.
(MIRA 11:1)

(Poultry houses and equipment)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2"

GINZBURG, S. (Kiyev)

Let's compile the balance of income and expenditures according to population groups. Sov. torg. 35 no.6:38-40 Je *62. (MIRA 15:7) (Income accounting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

BOYCHENKO, Aleksandr Maksimovich, inzh.; GINZBURG, Shmilyk Moiseyevich, inzh.; ZHERDETSKIY, Petr Fedorovich, inzh.; PRISED'KO, Boris Stepanovich, inzh.; MERKLING, M.I., inzh., nauchnyy red.; YUDINA, L.A., red. izd-va; GILENSON, P.G., tekhn. red.

[Construction of apartment houses from large slabs] Stroitel-stvo zhilykh zdanii iz krupnykh panelei; iz opyta Glavkiev-stroia. [By] A.M.Boichenko i dr. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 128 p.

(MIRA 15:2)

(Kiev-Apartment houses)
(Precast concrete construction)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

KOROBTSOV, I.M., dotsent; GINZBURG, S.A., dotsent

Rapid method of checking the moisture content in highly viscous furnace masout. Nauch.trudy OIIMF no.13:252-265 157. (MIRA 11:11)

(Diesel fuels)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R000515130004-2
CIA-RDP86-00513R000515130004-2
CIA-RDP86-00513R000515130004-2

Urgent measures for improving the quality of fuel oil and methods for using it in the merchant marine. Neft. khoz. 36 no.1:64-69 Ja 158. (MIRA 11:2)

(Petroleum as fuel)

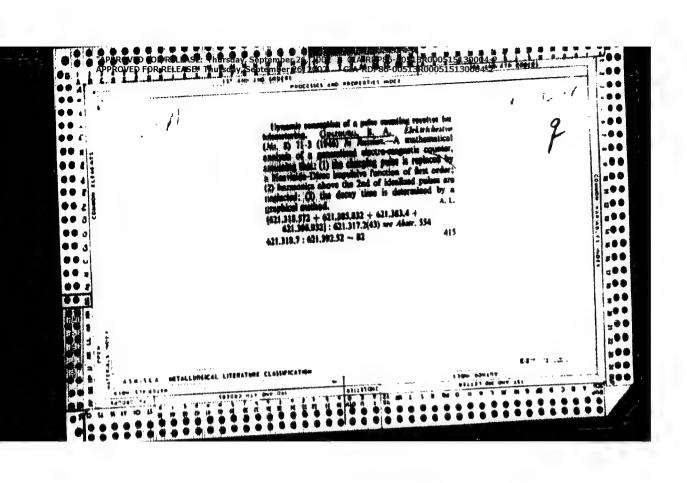
"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

BUSALOV, A.A.; GINZBURG, S.A.; KOGOY, T.F.; SHCHETININA, I.N.; YUDIN, I.Yu.

Clinicoroentgenological and roentgenomorphological comparisons in nonspecific uncerative colitis. Vest. rent. i rad. 39 no.1:3-7

Ja-F 164. (MIRA 18:2)

1. Kafedry fakul'tetskoy khirurgii (zav. - prof. A.A. Busalov), infektsionnykh belezrev (zav. - deystvitel'nyv chien AMN 3881. prof. F.F. kilibin), patolezicheskoy anatonii (zav. - deystvitel'nyv chien AMN 388R prof. L.V. Davydovskiy) il Hoskovskogo meditsinskogo anatituta ameni lirogova.



"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515140004-2 CIA-RDP86-00513R000515140004-2 CIA-RDP86-00515140004-2 CIA-RDP86-00515140004-2 CIA-RDP86-00515140004-2 CIA-RDP86-00515140004-2 CIA-RDP86-00515140004-2 CIA-RDP86-0051

"Modern Bridge Circuit with Automatic Balancing." Electrichestvo, No 8, 1948. APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R000515130004-2
CIN7BERG, S. A.

"Review of P/ Ye, Temikov's and R. R. Kharchenko's Book, 'Electrical Peasurements of Non-Electrical Quantities."

Electrichestvo, No 8, 1949.

J"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-005138000515130004-2"

APPROVED FOR RELEASE: Thursday, September 26, 2002
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APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROV

1881. Thyretronic automatic temperature regulator for laboratory electric heaters....S.A. Girsaving (Zissel. Lab., 18, 369, 1949). By means of electric and ionic lampe an automatic regulator was constructed for maintaining a constant temperature in electric heaters. The main characteristics were continuity of operation and the elimination of a galvenometer, relay or any other moving parts of contacts. In this apparatus the resistance thermometer, connected into the AC bridge circuit, in the sensitive element. The signal from the bridge is electronically amplified. The thyrotron is the functioning element, into the anotic circuit of which the heater is connected. The regulator is stated to be reliable and easily operated. A detailed description of the apparatus is given (2 figs.)

-100 ... ••• -00 ----00 06 al -00 -9 3 -00 AM ACCURATE THE ELECTROPETER. S. A. Ginsburg. (Zavod-akays: Laboratoriya, 1949, vol. 15, Nov., pp. 1384-1386). -00 #0 0 ... =00 [In Russian]/. A description as given of an electronic electrometer for the accurate measurement of poterntial in carouits **≈9 9** of high resistance, e.g., in the study of corrosion potential at grain boundaries. 8.K. = 0 0 E 0 2 ... **500** -00 ... 100 100 200 200 u0 0 627 7 44 ASO SEA METALLUNGICAL LITERATURE CLASSIFICATION 100

USSR/Electricity - Four-Terminal Monlinear Networks Hetworks

Sep 50.

S. A. Ginzburg, Cand Tech Sci, Moscow "Theorem of Monlinear Four-Terminal Hetworks,"

"Blektrichestvo" No 9, pp 68-74

Proves subject theorem useful in calculating nonlinear circuits. Gives relationship of dyconductances of its nonlinear elements. namic conductance of this network to dynamic plotting volt-ampere curve of four-terminal sents general method, based on theorem, of Pre-

161247

Bey 50

methods for nonlinear four-terminal networks with one or two nonlinear elements. USER/Electricity - Four-Terminal with assigned characteristics, and special metwork with any number of nonlinear elements Networks (Contd)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

GIREURG, S.A.; INKETMAN, I.Ya.; MAIOY, V.S.

[Fundamentals of automatic and remote control] Osnovy avtematiki i telemekha-niki. Moskva, Gos.energ.isd-vo, 1953. 432 p. (NLRA 6:12) (Automatic control) (Remote control)

USGR/Electronics - Circuit Theory

Feb 53

"Synthesis of Some Mon-Linear Circuits," Cand Tech Sei S. A. Ginzburg, Mostow Power Eng Inst iment Holotor

Elek-vo, No 2, pp 48-55

septs of functional and energy conditions of cir-Bramines methods for detg parameters of linear cir. linear element characteristics. Introduces concuit elements and possible currents and voltages matisfying given operating conditions and noncuit operations. Examines in general form 24.BIS6

of synthesized non-linear circuit in relative units Subritted formulas. This research was reported by author in 1949 to Sci and Tech Soc of Moscow Power Eng Inst Cites numerical example of calen of bridge regulafunctional conditions of voltage indicator and regulator, also of relay circuit (trigger). Demon-strates feasibility of expressing characteristics tor with ballast resistors using dimensionless and at sci session devoted to Radio Day.

(EEA J6 no. 672: 4998 13.

248T56

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2

GORYAINOV, O.A.; RAYNES, R.L.; GINEBURG, S.A., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor.

[Remote control] Teleupravlenie. Moskva, Gos. energ. isd-vo, 1954. 511 p. (MLRA 7:12) (Remote control)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

"A Magnetic-Static Power Transformer" from the book Remote Control of Power Systems, published by the AS USSR, 1954.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2"

WALOV, Vladimir Sergeyevich; GINZBURG, S.A., redaktor; FRIDKIN, A.M. tekhnicheskiy redaktor.

[Telemechanics in power systems] Telemekhanika v energeticheskikh sistemakh. Izd.2-e, perer. Moskva, Gos.energet. izd-vo 1955. 328 p. (MLRA 8:12) (Remote control) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2" CIA-RDP86-00513R000515130004-2"

112-2-3998

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Nr 2, p.210 (USSR)

AUTHOR:

Ginzburg, S.A.

TITLE:

Electromechanical Systems Reproducing Functions of a Complex 'Variable(Applicable to the Computation of Automatic Control Systems) (Elektromekhanicheskiye ustroystva, vosproizvodyashchiye funktsii kompleksnogo peremennogo (primenitel'no k raschetu sistem avtomaticheskoge

regulirovaniya)

PERIODICAL: Tr. 2-go Vses. soveshchaniya po teorii avtomat. reguli-

rovaniya. Moscow-Leningrad, 1955, Nr 3, 130-139,

addresses 140-143

ABSTRACT: The

The design principles of five devices proposed by the author and intended on the whole for the analysis of automatic control systems (ACS) are explained. The operating principle of these devices is a method of representing complex numbers by sinusoidal voltages.

Card 1/5

112-2-3998

Electromechanical Systems Reproducing Functions of a Complex (Cont.)

The solutions are automatically registed on a complex plane (on paper or on a tube screen). The roots of the equation $f_n(z) + f_{n-1}(z) + \cdots + f_0(z) = 0$ are found with the first device. Here $z = e^{j\phi}$. The variable z is represented as mechanical dissplacements proportional to e and ϕ . The variables e and ϕ are introduced in such a way that the point z traces the complex plane. The moment of root passage is set by the zero-adjuster by the equality to zero of the sum of the sets output sinusoidal voltages generating the terms of the equation $f_k(z)$ is equal to zero. The design is given of a device for solving a special case of this problem, finding the roots of the characteristic ACS equation: $a_n z^n + a_{n-1}^{2n-1} + \cdots + a_0 = 0.$ The basic elements of

this device are phase inverters and taper-wound rheostats. The experimental model has shown that the approximate accuracy in finding roots is to \pm 5 per cent. Diagrams

112-2-3998

Electromechanical Systems Reproducing Functions of a Complex (Cont.)

obtained on this model for the solution of two equations with real and complex coefficients are given. The second device is designed for finding the roots of a characteristic ACS equation when the equation itself is not given, but only the characteristic polynomials of the ACS component units and when the ACS scheme is known. In the case of a one-circuit ACS, the device generates the sinusoidal voltages representing the complex numbers $D_1(z) = q_1 e^{\int dt}$; $D_2(z) = q_2 e^{\int dt}$;

In course of the solution, the complex plane z is traced. Card 3/5

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CIA-RDP86-00513R000515130004-2*
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Electromechanical Systems Reproducing Functions of a Complex (Cont.)

The values of z which correspond to W = 0 are the desired roots. The roots for a multicircuit ACS are determined in practically the same way. The third device makes it possible to find the roots of the characteristic equation $D(z) - M(z) e^{\gamma z} = 0$ for a time-lag ACS. The device generates the voltages qe and me is which represent the polynomials D(z) and M(z). By way of logarythmic operations the terms of the briginal equation can be reduced to the form: $\ln q + j\alpha = \ln m + j\beta - Tz$. The real and imaginary terms in this equation are represented by voltages at a 90° phase angle to each other. The plane z is traced as above. The values of the independent variable z which satisfy this equation are its roots. The conformal mapping of the secondary axis of the plane z on the plane W for the function W=D(z)/M(z), where D(z) = $q \cdot e^{j\alpha}$ and M(z) = $m \cdot e^{j\beta}$

are polynomials, is done in the fourth device on paper or on the screen of a tube. This device can be used for plotting Mikhaylov's curve, for grouping parameter regions ("D-razbiyeniye"), etc. The quantities q, \prec, m and β obtained after the polynomials have been worked out, are fed to the computing machine giving the voltage $W = q/meJ(\phi - \beta)$

Card 4/5

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Electromechanical Systems Reproducing Functions of a Complex (Cont.)

at the cutput. This quantity is plotted on the complex plane W. Should plotting the Mikhaylov curve be required only, the design of the device can be considerably simplified. The fifth device is the most universal. Direct and reverse conformal mapping (from plane z to plane W and vice versa) of any curves for a given function can be done with this device. In direct conformal mapping the point z skirts the given curve, the voltage W is generated and the follow-up systems generated the modulus and the argument W. In reverse transformations the plane z is repeatedly tracked and the values of z which correspond to given values of the quantity W are registered. The point designating these successive values slowly skirts the given curve on the plane W.

V.A.B.

"APPROVED FOR RELEASE: Thursday, September 26, 2002

USSR/Engineering RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R000515130004-2

FD-1746

Card i/1

: Pub. 10-5/12

Author

Ginzburg, S. A. (Moscow)

Title

Static power converters

Periodical

: Avtom. i telem., Vol. 16, 172-163, Mar-Apr 1955

Abstract

The author analyzes the general theory and classification of static power converters that are employed as primary meters for telemetering and automatic regulation of power in electric power systems. He surveys static converters of various types, and describes the principles governing the theory and technical characteristics of magnetic power converters. 19 references; eg. V. S. Malov, "Remote-Control Telemetering," Elektrichestvo, No 1, 1953; G. M. Zhdanov, Teleizmereniye [Telemetering], State Power Press, 1952; G. N. Balasanov, "Semiconductor thermo-resistors," Sbornik rabot po avtomatike i telemekhanike [Symposium on automatics and telemechanics], Acad. Sci. USSR Press, 1953; A. M. Pshenichnikov, "Thermoelectric power transducer," Sbornik 'Telemkhanizatsiya energosistem', Acad. Sci. USSR Press, 1954; K. B. Karandeyev, Poluprovodnikovyye vypryamiteli v izmeritel'noy tekhnike [Semiconductor rectifiers in metering], Acad. Sci. Ukr. SSR Press, 1954.

Institution :

Bubmitted

May 25, 1954

(CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051510004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051510004-2 CIA-RDP86-00513R00051510004-2 CIA-RDP86-0051510004-2 CIA-RDP86-00510004-2 CIA-RDP86-0051004-2 CIA-RDP86-0051004-2 CIA-RDP86-0051

"Methods of the Contruction of Static Power Transformers" (Metody postroyeniya staticheskikh preobrazovateley moshchnosti) from the book <u>Telemechanization in the National Economy</u>, op. 264-276, Iz. AN SSSR, Moscow, 1956

(Given at meeting held in Moscow 29 Nov to 4 Dec 54 by Inst. of Automatics and Telemechanics)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
GINZBURG, S.A. (Notkya)

CIA-RDP86-00513R000515130004-2
CIA-RDP86-00513R000515130004-2

General theory of circuits with nonlinear magnetic members [with English summary in insert]. Avtom.i telem. 17 no.9:799-810 S '56.
(MIRA 9:11)

(Electric circuits)

9(6)

SOV/112-59-3-5574

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 3, p 186 (USSR)

AUTHOR: Ginzburg, S. A., and Brik, V. A.

TITLE: Computer for investigating the Indicial Equations of Automatic-Control Systems (Vychislitel'naya mashina dlya issledovaniya kharakteristicheskikh uravneniy sistem avtomaticheskogo regulirovaniya)

PERIODICAL: V sb.: Mezhvuz. konferentsiya po primeneniyu modelirovaniya v elektrotekhn. zadachakh i mitem. modelirovaniya. M., 1957, p 184

ABSTRACT: An analog electromechanical computer permits analyzing polynomials of 10th power of the form $\omega = \begin{bmatrix} 10 \\ \sum \\ 0 \end{bmatrix} a_n z_n$, where a_n are real or complex

coefficients; the computer can automatically construct the Mikhaylov's hodograph for a closed automatic-control system, can determine a polynomial root locus on the complex plane z, multiple roots, and can also solve other

Card 1/2

SOV/112-59-3-5574

Computer for Investigating the Indicial Equations of Automatic-Control Systems problems associated with investigations of an automatic-control system. By changing z arbitrarily, a corresponding curve on the plane w can be obtained, or vice versa. An electron-beam afterglow-type tube screen can be used as a plane z or w. In determining the roots of equations of an automatic-control system, modules and arguments can be approximately figured out from the tube screen and then can be accurately read from special scales. The computer error is 2% or less for the module and 2° for the argument. Most problems can be solved in a few minutes. The computer has been developed and tested by TsLEM, Mosenergo.

I.L.M.

PHASE I BOOK EXPLOITATION

793

Ginzburg, Samuil Aleksandrovich

- Nelineynyye tsepi i ikh funktsional'nyye kharakteristiki (Nonlinear Circuits and Their Functional Characteristics) Moscow, Gosenergoizdat, 1958. 151 p. 15,000 copies printed.
- Ed.: Negnevitskiy, I.B.; Tech. Ed.: Larionov, G. Ye.
- PURPOSE: The monograph is intended for scientists, engineers, and senior students specializing in automation and telemechanics.
- COVERAGE: General characteristics of nonlinear a-c and d-c electric circuits are given and a graph-analytical determination of voltage and current distribution in nonlinear circuits is presented. Utilization of nonlinear

Card 1/5

Nonlinear Circuits (Cont.)

793

circuit characteristics in constructing mathematical functions and calculating parameters of circuits performing multiplication and division is discussed. Determination of conditions for stabilization and relay effects is covered and a method of constructing logarithmic and quadratic circuits is given. Twoterminal nonlinear elements such as semiconducting resistances, ferromagnetic elements, and nonlinear capacitors are discussed. Treatment of electronic-ionic two-terminal elements and multiterminal networks as well as transients in nonlinear a-c and d-c circuits is not included. Discussion of the behavior of a-c nonlinear circuits is limited to cases of a fixed frequency and sinusoidal voltages and currents. Examples of using nonlinear circuits in such devices as stabilizers, voltage indicators, contactless relays, and functional converters are given. The author thanks Professor A.V. Netushil, Doctor of Technical Sciences, for his valuable

Card 2/5

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051514004-2 CIA-RDP86-0051041404-2 CIA-RDP86-0051041404-2 CIA-RDP86-0051041404-2 CIA-RDP86-005104-2 CIA-RDP86-005104-2 CIA-RDP

Nonlinear Circuits (Cont.)

793

comments while reviewing the manuscript, and Docent I. B. Negnevitskiy, Candidate of Technical Sciences, who edited the monograph. There are 124 references, of which 113 are Soviet (including 4 translations), 10 English, and 1 German.

TABLE OF CONTENTS:

Foreword	3
Ch. 1. Characteristics of Nonlinear Circuits 1. Nonlinear elements a. General characteristics b. Types of nonlinear elements 2. General aspects of nonlinear circuit characteristics	7 7 7 12 20
3. Currents and voltages in a nonlinear circuit	22
Cond 3/n	

Card 3/5

Non1:	inea	r Circuits (Cont.) 793	
	5.	Dynamic parameters of a nonlinear circuit Relative parameters of a nonlinear circuit Relative parameters of a nonlinear circuit	28 31 40 42
	2.	Methods of calculation Graph-analytical calculation of nonlinear circuit parameters a. Construction of characteristics of nonlinear circuits b. Calculation of relay and stabilization effects	44 47 47 54 59
Ch.	3. 1.		73 73
Card	4/	5	

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2	
Nonlinear Circuits (Cont.) 793	
1. General aspects 2. Use of "natural" nonlinearities 3. Method of power series combination 4. Broken-line approximation of a curve 5. Nonlinear feedback	73 76 91 99 120
Ch. 4. Nonlinear Circuits for Multiplication and Division 1. General aspects 2. Logarithmic circuits for multiplication and division 3. Quadratic circuits for multiplication and division a. Circuits for multiplication b. Circuits for division	123 123 124 126 126 145
Bibliography	141
AVAILABLE: Library of Congress (QC607.G5) JP/ksv 10-30-58	

Card 5/5

AUTHORS: Brik, V. A., Ginzburg, S. A. (Moscow) 103-19-7-5/9

TITLE: A Computer Which Constructs the Conformal Mappings for N-Order

(Vychislitel'naya mashina, vypolnyayushchaya Polynomials postroyeniye konformnykh otobrazheniy dlya stepennogo polinoma)

PERIODICAL: Avtomatika i telemekhanika, 1958, Vol 19, Nr 7,

pp 674 - 683 (USSR)

ABSTRACT: The construction of the conformal mappings of a complex plane Z

upon the plane W and vice versa for the equation

 $a_0 + a_1 Z + a_2 Z^2 + \dots + a_n Z^n = W$ (1)

is of great practical importance in the investigation of automatic control systems. Here a machine which was worked out in the TsLEM Mosenergo (Central Laboratory and Experimental Workshops of the Power Supply System Moscow) is described. It permits to perform operations of the conformal transformation for polynomials including the 10th degree. This machine makes possible the construction of the mappings of any points and curves from the plane

Z to the plane W (direct maps) and of some points (and sections)

from W to Z (reversal maps). The complex numbers are represented Card 1/3

A Computer Which Constructs the Conformal Mappings for N-Order Polynomials 103-19-7-5/9

by sinusoidal voltages of constant frequency (50 c). Before the polynomial is introduced into the machine it must be transformed mathematically. The form (4) is derived and in this form the polynomial is introduced into the machine. The block schene of the machine is given. The most fundamental part of it is the functional transformer which produces 2 volta; es W and z. The phase sensitive scheme 2 decomposes the sinusoidal voltage (which represents a complex number) applied to it into 2 voltages which are proportional to the real and imaginary component. These voltages are applied to the deflecting plates of the cathode ray tube the screen of which represents a complex plane. The electron zero device 3 responds when its input voltage approaches zero. Subsequently the electric diagram of the machine is described. It is shown that the construction of the direct transformation in the machine is performed by means of introduction of those z-values the transformation of which is to take place. The construction of the reversal transformations, however, is performed after the method of scanning the plane. I.e. the variable z varies on the one or the other way until the required quantity W appears at the output. The fundamental practical problems for the machine are the

Card 2/3

A Computer Which Constructs the Conformal Mappings
For N-Order Polynomials

103-19-7-5/9

determination of the polynomial roots and the construction of the hodograph by Mikhaylov. In the last case a direct map is constructed. The solution of the problem for the determination of the roots (under application of the automatic introduction of z) is described in detail. For the illustration of the accuracy of the solution by means of the machine, examples are given. The machine described here was produced in the Tslem Mosenergo in two specimens and they are used in the Laboratory for Dynamic Models at the MEI (Moscow Institute of Power Engineering) and in the VNIIE MES for the solution of problems which are connected with the stability of the operation in the energy systems. There are 6 figures, 1 table, and 10 references, 7 of which are Soviet.

July 4, 1957

SUBMITTED:

1. Control systems—Analysis 2. Conformal mapping
3. Mathematical computers—Performance 4. Mathematical computers—Equipment

Card 3/3

- Ginzburg, Samuil Aleksandrovich, Izrail' Yakovlevich Lekhtman, and Vladimir Sergeyevich Malov
- Osnovy avtomatiki i telemekhaniki (Fundamentals of Automation and Telemechanics) 2d ed., rev. Moscow, Gosenergoizdat, 1959. 478 p. 35,000 copies printed.
- Ed. (Title page): S. A. Ginzburg; Ed. (Inside book): Yu. P. Ustinova; Tech. Ed.: G. Ye. Larionov.
- PURPCSE: The book is intended for engineers and technicians working in automation; and remote control or interested in familiarizing themselves with this field. It may also be used as a textbook by students.
- COVERAGE: The book contains basic information on automation and remote control facilities. It describes electronic, semiconductor and other components, such as data units, relays, amplifiers, distributors, voltage regulators, servomotors and others. The authors examine automatic regulation and control, servos, and measuring and computing systems. They describe the operation of Card 1/9

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2 SOV/3244 Fundamentals of Automation (Cont.) telemetering and remote control systems and the function of communication channels. The Introduction and Chapters 1, 2, 5 and 11 were written by S. A. Ginzburg, Chapters 3, 7, 8 and 9 by I. Ya. Lekhtman, Chapters 12, 13, 14, 15 and 16 by V. S. Malov. Chapter 4 was written jointly by S. A. Ginzburg and I. Ya. Lekhtman, and Chapters 6 and 10 by S. A. Ginzburg and V. S. Malov. There are 38 references, all Soviet. TABLE OF CONTENTS: 3 Foreword to the Second Edition 5 From the Foreword to the First Edition 11 Introduction PART I. COMPONENTS OF AUTOMATION AND REMOTE CONTROL Ch. I. Functions and General Characteristics of Automation 18 and Remote Control Components

2. Functions of automation and remote control components.

1. General information

Card 2/9

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2	
Fundamentals of Automation (Cont.) SOV/3244	
Definitions	19
3. General Characteristics of components of automation and remote control. Definitions	25
Ch. II. Electromechanical Components	37
 General information Electric transmitters of mechanical quantities Electromechanical relay Electromechanical control devices Electromechanical distributors Electromechanical voltage regulators, amplifiers and pulse generators 	37 38 48 66 70
Ch. III. Electric Machine Components	74
1. General information 2. D-c electric motors 3. A-c electric motors 4. Rotating amplifiers 5. D-c rate generators Card 3/9	74 75 84 90 97

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"		
Fundamentals of Automation (Cont.) SOV/3244		
6. A-c rate generators	98	
Ch. IV. Ferromagnetic Components	100	
1 General information	100 101	
2. Characteristics of iron-core reactors 3. Magnetic amplifiers	113 128	
4. Magnetic contactless relay 5. Ferromagnetic voltage regulators	130	
Ch. V. Electrothermal Components	133	
1. General information	133 133	
2. Thermocouples 3. Thermistors	137	
Ch. VI. Electronic and Radioactive Components	149	
	149	
1. General information 2. Electronic and ionic devices	150 155	
3. Semiconductor devices 4. Phase-sensitive rectifiers and amplifiers Card 4/9	163	

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"	
Fundamentals of Automation (Cont.) SOV/3244	
5. Voltage regulators 6. Electronic, ionic and semiconductor relay-action circuits 7. Electronic and ionic distributors 8. Photoelectronic amplifiers and relays 9. Application of radioactive isotopes	173 178 185 189 195
PART II. SYSTEMS OF AUTOMATION	
Ch. VII. Systems of Remote Angle Transmission	198
1. General information 2. Step-by-step system of remote angle transmission 3. D-c stepless action systems of remote angle transmission 4. Selsyn system of remote angle transmission 5. Magnesyn system of remote angle transmission	198 199 200 204 212
Ch. VIII. Automatic Regulation	214
1. General information 2. Structure of automatic regulation systems	214 215
Card 5/0	

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2"		
Fundamentals of Automation (Cont.) SOV/3244		
3. Stability of linear systems of automatic regulation 4. Typical sections of automatic regulating systems	227 234	
5. Relation between the characteristics of the regulating system in the closed and open states	248 252	
 Stability analysis of the automatic speed regulator Speed regulators with relay control 	259	
Ch. IX. Servo Systems	263	
 General information Static and dynamic errors Stability analysis of servo systems Effect of nonlinearities on the stability of servo 	263 269 271	
systems 5. Servo systems with relay control	2 7 9 282	
Ch. X. Automatic Measuring Systems	283	
1. General information 2. Unbalanced systems 3. Balanced systems Card 6/9	283 288 292	

	-
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2	
Fundamentals of Automation (Cont.)	
the digital indication	308
	312 8 315
sorting 6. Systems of centralized inspection of production processe	
Ch. XI. Automatic Computers	J-1
1. General information 2. Analog computers	317 318 343
3. Digital computers	367
Ch. XII. Automatic Control 1. General information 2. Automatic starting of electric motors 3. Automatic protection 3. Automatic protection 3. Automatic protection	367 371 375 376
3. Automatic protection 4. Programmed control of metalworking machine tools PART III. REMOTE CONTROL SYSTEMS	
Ch. XIII. Communication Channels	379
Card 7/9	

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2

APPROVED FOR RELEASE: Inursday, September 20, 2002 CIA-RDP80-00513R000515130004-2	
Fundamentals of Automation (Cont.) SOV/3244	
1. Special features of remote control systems and purpose of communication channels	379 381
 Wire communication lines High-frequency communication channels along high-voltage electric power transmission lines Microwave radio communication channels 	387 388
Ch. XIV. Telemetering. Short-range Systems	392
1. General information 2. Intensity systems	392 396
Ch. XV. Long-distance Telemetering Systems	404
1. General properties. Classification of methods 2. Number-pulse and code-pulse systems 3. Frequency systems 4. Time-pulse and phase-pulse systems 5. Multichannel telemetering systems	404 407 417 433 440
Ch. XVI. Remote Control and Remote Signal Systems	443
Card 8/9	

SOV/3244 . Fundamentals of Automation (Cont.) 1. Basic considerations. General principles of remote control 443 and remote signal systems 1447 2. Multiwire remote control systems 3. Remote control systems with frequency separation of 449 4. Remote control systems with time separation of signals 453 5. Prevention of remote control systems from producing 469 distorted signals 472 Bibliography 478 Alphabetical Index JP/ec AVAILABLE: Library of Congress 3-16-60 Card 9/9

CIA-RDP986-0051313000004-7.

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VITENBERG, I.M., kand.tekhn.nauk; GINZBURG, S.A., kand.tekhn.nauk; Gornshteyn, V.M., kand.tekhn.nauk

Use of an electronic simulating device in calculating the efficiency of operation of power systems with hydroelectric power stations.

Trudy VNIIR no.8:233-242 159. (MIRA 13:9)

(Hydroelectric power stations)
(Electric power)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

GINZBURG, S.A., kand, tekhn.nauk

Power converter with thyrite resistances. Trudy VHIIE no.8: 251-263 159. (NIRA 13:9)

(Mlectric current converters)

5/196/62/000/012/013/016 E194/E155

Marburg, S.A. AUTERR:

a computer for calculating economic conditions of TITLE:

a power system

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.12, 1962, 14, abstract 12 E84. (V Sb. 'Primeneniye

vychisl. tekhn. dlya avtomatiz. proiz-va' (In the Symposium 'Application of Computer Techniques to Automation of Production'). Moscow, Nashgiz, 1961,

358-368).

In 1959 development commenced of an analogue computer for ODU YeEs which is based on the equivalent circuit of the European part of the unified power system of the USSR. computer is intended to calculate distribution of the active load between power systems and large hydroelectric stations, allowing for losses in the system and assuming constant heads at the hydro stations. It can also determine the total relative increments of fuel consumption of a group of stations and the Card 1/2

A computer for calculating ...

S/196/62/000/012/013/016 E194/E155

relative increments of power losses at various points in the system. The relative increment characteristics are reproduced by the 'triangle' method, which consists in the formation of linear-segment relationships as the sum of triangular functions. The computer is designed for sixteen objects (systems or stations) and fifteen sections of transmission system. With non-linear elements the power transmitted over the lines can be limited. The relative increments of power loss in the system are determined by the voltage drop in sections of the analogue. The computer uses 130 d.c. amplifiers type Fig. 4 (UPT-4) with semi-automatic zero control system.

Abstractor's note: Complete translation.

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

GINZBURG, S.A., kand.tekhn.nauk; GORNSHTEYN, V.M., kand.tekhn.nauk; SOVALOV, S.A., kand.tekhn.nauk

Fundamental principles of designing a computer for operational calculation of the load distribution efficiency of a consolidated electric utility system. Elek. sta.32 no. 5:35-41 My '61.

(MIRA 14:5)

(Interconnected electric utility systems)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051513004-2 CIA-RDP86-00513R00051514004-2 CIA-RDP86-00513004-2 CIA-RDP86-00513004-2 CIA-RDP86-0051514004-2 CIA-RDP86-00514004-2 CIA-RDP86-00514004-2 CIA-RDP86-00514004-2 CIA-RDP86-005140

KORCHAGINA, V.I.; GINZBURG, S.A.; FIN'KO, A.A.; RUTMAN, L.1.; DAVYDOV, I.V.; LAVRINOVICH, D.A.

Electric method for measuring the water content in crude oil. Neft. i gaz. prom. no.2:51-56 Ap-Je '62. (MIRA 15:6)

1. Odesski**y** neftepererabatyvayushchiy zavod. (Petroleum-Refining)

16.6x00

S/044/62/000/012/041/049 A060/A000

AUTHOR:

Ginzburg, S.A.

TITLE:

A logical method of synthesizing function generators

PERIODICAL: Referativnyy zhurnal, Matematika, no. 12, 1962, 46, abstract 12V252 (Tr. I Mezhdunar. kongressa Mezhdunar.federatsii po avtomat. upr. 1960. /T. 4/. Tekhn. sredstva avtomatiki. Moscow, AN SSSR, 1961, 267 - 281. Discussion 281 - 284)

TEXT: The author sets forth the elements of the algebra of the logic of continuous quantities (taking all finite values), based on the operations of disjunction $(x \lor y = \max(x, y))$, conjunction $(x \land y = \min(x, y))$, and inversion $(\overline{x} = -x)$. The author shows networks realizing these operations. These circuits contain diodes, active resistances and voltage sources. He gives a method of using these circuits to synthesize networks realizing functions of one variable by means of piecewise-linear approximation. A method is also proposed for realizing functions of two variables specified by a finite number of points on the Z-axis (the X and Y axes being taken by the input variables), where the interpolation

Card 1/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2" CIA-RDP86-00513R000515130004-2"

A logical method of synthesizing function generators

S/044/62/000/012/041/049 A060/A000

between these points is carried out by surfaces of the second order.

A.D. Zakrevskiy

[Abstracter's note: Complete translation]

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Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2"

BOROZINETS, B.V., insh.; GINZBURG, S.A., doktor tekhn. nauk; SHLIMOVICH, V.D., INSE.

Network, construction, and operational indices of the RER computer of the Administration of Power Production, Distribution, and Control of the Consolidated Power System of the European part of the U.S.S.R. Trudy VNIIE no.18:4-13 '64.

(MIRA 18:6)

ACCESSION NR: AP4019325

\$/0105/64/000/003/0008/0012

AUTHOR: Borozinets, B. V.; Ginzburg, S. A.; Gornshteyn, V. M.;

Shlimovich, V. D.; Sovalov, S. A.; L'vov, Yu. N.

TITLE: Computer for calculating power-system economy operation and the

operating experience gained at ODU YeES

SOURCE: Elektrichestvo, no. 3, 1964, 8-12

TOPIC TAGS: power system, Soviet united power system, power system economics, power system economics computer, computer, interconnected power systems, high economy power system operation

ABSTRACT: An analog computer intended for calculating the high-economy operation of the Soviet United Power System (UPS) is described. The following features were taken into account in designing the computer: (1) The UPS is represented by an equivalent network in which all generating stations of a local power system are replaced by an equivalent station having an equivalent incremental economy rate characteristic; (2) Easy setting of any incremental characteristic; (3) System loads are represented by equivalent loads that have

ACCESSION NR: AP4019325

individual load curves; (4) Interconnection-line losses are evaluated by special methods. The computer comprises the following essential parts: 16 generating station equivalents, 16 loads, 15 tie lines, 8 nonlinear units representing incremental losses due to power exchanges and tie-line load restrictions, 14 elements for setting the resistances of transmission lines. The computer includes 128 UPT-4 amplifiers, 1,000 6D6A diodes, 800 SP-2-A potentiometers, 2,000 resistors, 7 power-supply packs, etc.; power consumption is 7 kw. Computation of a set of operating UPS conditions takes about 2 hrs. The computer has been in continuous use since Nov. '62. "L. B. Denisevich (ODU YeES) and N. S. Malishevskaya (VNIIE) took part in aligning and operating the computer."

Orig. art. has: 3 figures and 1 table.

ASSOCIATION: VNIIE (All-Union Scientific Research Institute of Electrical Power Engineering); ODU YeES (Joint Load-Dispatcher's Office, United Power System)

SUBMITTED: 10Jun63

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: PR. EE

NO REF SOV: 001

OTHER: 000

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 CIA-RDP86-00513R000515130004-2

GINZBURG, S.A., doktor tekhn. nauk

Logical method for the synthesis and analysis of electrical networks in the representation of mathematical functions. Trudy VNIIE no.18:14-34 164.

Basic construction principles of the RER-2 analog-digital computer. Ibid.:88-98 (MIRA 18:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515130004-2"

GINZBURG, S.A., doktor tekhn. nauk; LYUBARSKIY, Yu.Ya., inzh.; SHIJBUVICH, V.D., inzh.

Functional converter of the RER computer and its design. Trudy VNIIE no.18:35-52 '64. (MIRA 18:6)



GINZBURG, S.A., doktor tekhn. nauk; LYUBARSKIY, Yu.Ya., inzh.

Composite (analog-digital)functional converters of one and two variables. Trudy VNIIE no.18:53-62 164. (MIRA 18:6)

GINZHURG, S.A., doktor tekhn. nauk; LYUBARSKIY, Yu.Ya., inzh.; MALISHEVSKAYA, N.S., inzh.

Functional analog memory device for a digital computer. Trudy VNIIE no.18:63-68 '64. (MIRA 18:6)

KRAVCHUK, V.F., inzh.; KORCHAGINA, V.I., inzh.; GINZBURG, S.A., inzh.; IONGRE, G.A., inzh.; RUIMAN, L.I., inzh.; FIN'KO, A.A., inzh.; DZVYDOV, I.V., inzh.; LAVRINOVICH, D.A., inzh.

Express method for determining water content in highly viscous mazuts using their dielectric constant. Elek. sta. 35 no.9:22-26 S '64. (MIRA 18:1)

GINZBURG, Seguil Maksendrovich; LEKHTMAN, Izrail' Yakovlevich; Malov, fradimir Sergeyevich; Salanov, A.D., red.

[Frinciples of automatic and remote control] Osnovy avtomatiki i telemekhaniki. Izd.3., perer. Moskva, Energita, 1965. 511 p. (MIRA 18:6)

ACC NR. AP6029550

SOURCE CODE: UR/0103/66/000/008/0131/0138

AUTHORS: Ginzburg, S.: A. (Moscow); Lyubarskiy, Yu. Ya. (Moscow)

ORG: nono

TITLE: A hybrid function generator

SOURCE: Avtomatika i telemekhanika, no. 8, 1966, 131-138

TOPIC TAGS: analog digital convertor, digital analog convertor, generator, hybrid computer, analog digital computer, interpolation, polynomial / RER-2 analog digital computer, RER-1 analog digital computer

ABSTRACT: An analog-digital single-variable function generator is described. The device has fast response, accuracy, and simplicity. An extended interpolation polynomial is used to obtain fairly simple tuning of the circuit (see Fig. 1). An input converter (see Fig. 2) is used to separate the input value into digital and analog parts. The analog value required for interpolation $\mathbf{x}_{\mathbf{a}}$ is formed in accordance with

$$x_{A} = \left[x - \frac{2X}{m} E\left(\frac{xm}{2X}\right) - \frac{X}{m}\right] \frac{m}{X},$$

where E(xm/2X) is the integral part of xm/2X. Both digital and analog function

Card 1/3

UDC: 681.341335.8

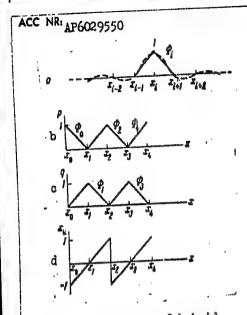


Fig. 1. Structure of hybrid function generator

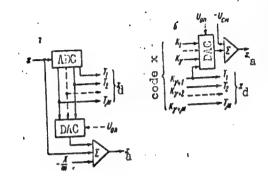


Fig. 2. Input converter of hybrid function generator: a-analog form of input value; b - digital form of input value

Card 2/3

ACC NRI AP6029550

setting are provided. Such a hybrid function generator was constructed for the RER-2 analog-digital computer, in which the rms instrument error in reproducing monotone functions is 0.5-0.65. The generation time is not ever 1 msec. Orig. art. has: 15 formulas, 2 graphs, and 5 diagrams.

SUB CODE: 09/ SUBM DATE: 20Jan66/ ORIG REF: 008/ OTH REF: 002

Card 3/3

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TABLE OF CONTRACTS

Spaneidy, 5.5., Individual Qualitative Characteries of the Astitute of Measureted Compounds is Copolymen Assertions

2 Spassing, 5.5., 4.7. Tokarav, M.A. Filinglive, 4.1. Tarapre, 2.7. Molehamore, and M. Ye. Matterer. Georgestianies of Polymenters Mith High Moneses Spineshing, S.S., Fid., Ovoloraters, T.E. Tutto, State Frankrice, and To. S. Fagilitiere. Planticizors for Follywise Bostonies on Mitche Bubbers, 33

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Card 3/3

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SPASSKIY, S.S.; OBOLONSKAYA, N.A.; YUGIN, V.I.; GINZBURG, S.B.; TAGIL TSEVA, Ye.S.

Plasticizers for nitrile rubbers based on polymester resins. Trudy
Inst. khim. UFAN SSSR no.3:33-42 159. (MIRA 14:3)
(Plasticizers) (Rubber, Synthetic)

GINZBURG, S.G.; TEUMIN, I.I., redaktor; GROZNOVA, V.I., redaktor; KORUZEV,

[Methods of solving problems on transition transients in electric circuits] Hetody resheniia zadach po perekhodnym protsessam v electricheskikh tsepiakh. Pod red. I.I.Teumina. Moskva, Izd-vo "Sovetskoe radio." 1954. 251 p. (MIRA 8:4)

(Transients (Electricity)) (Electric circuits)

GINZBURG, S.G.. Prinimal uchastiye RIZKIN, A.A., dotsent; IVANUSHKO, N.D., red.; SVESHNIKOV, A.A., tekhn.red.

[Mathods of solving problems of transients in electric networks] Metody resheniis madach po perekhodnym protsessam v elektricheskikh tsepiakh. Imd.2., dop. i perer. Moskva, Sovetskoe radio, 1959. 403 p. (MIRA 13:2)

(Blectronic circuits)

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807/105-59-5-26/29

AUTHORS:

Ginzburg, S. C., Greyner, L. K., Zakharov, S. N.,

Kaplyanskiy, A. Ye., Neyman, L. R., Netushil, A. V.,

L. S., Pines, G. Ya., Polivanov, K. M., Savenko, V. G., et al

TITLE:

Vladimir Borisovich Romanovskiy

PERIODICAL: Elektrichestvo, 1959, Nr 5, p 93 (USSR)

ABSTRACT:

On January 13, 1959, Vladimir Borisovich Romanovskiy, Professor, Doctor of Technical Sciences, died at the age of 63. He started his activity as an engineer in the design office of the "Elektroapparat" Works in 1926. Soon he became head of the works laboratory. Since 1937, he was head of the Chair of Theoretical Electrotechnics at the Leningradskiy elektrotekhnicheskiy institut svyazi im. M. A. Bonch-Bruyevicha (Leningrad Communications Electrical Engineering Institute imeni M. A. Bonch-Bruyevich). At the same time, he maintained his relations to the works where he was a counsel, chief electrical engineer and a permanent member of the technical council. He is one of the founders of the theoretical principles for the building of high-voltage apparatus. At the chair he was occupied with calculations of transition processes in electric current cimuits which were also the subject of his doctoral thesis. He published more than 40 scientific papers.

Card 1/2

Vladimir Borisovich Romanovskiy

SOV/105-59-5-26/29

He bore the Badge of Honor and various medals. There is 1 figure.

Card 2/2

1

KAPLYANSKIY, A.Ye., doktor tekhn.nauk, prof. (Leningrad); GINZBURG, S.G., kand.tekhn.nauk (Leningrad)

Concerning the order of the differential equation of a transient process in a complex electrical network. Elektrichestvo no.10: 57-59 0 '62. (MIRA 15:12) (Electric networks) (Differential equations)

GINZBURG, Sh. G.

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SO: LETOPIS' NO. 31, 1949

GINZBURG, S. I. Cand. Chem. Sci.

Dissertation: "The Hydrolysis of the Complex Chlorides of Platinum Metals and its Utilization in Analysis." Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR, 19 Nov 47.

SO: Vechernyaya Moskva, Nov, 1947 (Project #17836)

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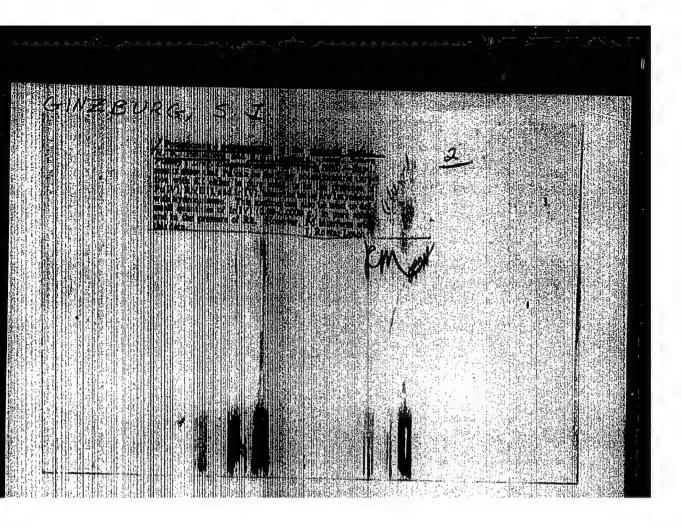
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Hydrolysis of camplex chlorides of platinum metals and the pH at which their hydroxides begin to separate. N. K. Pshenitayn and S. J. Gimburg. Invest. School Plating a Dragidh Bisgood. Mediller, Thill Obshehel a Newg. Khou. 18nd. Nanh S.S.R. No. 24, 110 10 (1000). The satisfication were NagRoChj. NajPtChj. KajPtCh. Nar-HtChj. NajPtChj. NajPtChj

.C.A. GINSBURG, C.I.

Hydrolytic method for separation of platinum metals with the aid of sine oxide. N. k. Pshemisyn and S. I. Gundong favil. School Philony of Doughk Historical Metal Philony (Doughk Historical Metal Philony Philony). To sep. Ith from Philosoph Historical Metal Philony of HCl, long to a bud, add the necessary ZuO, and 2 should be another of sides to be contained with Philosophy the ppt on HCl mutualize to a peakly and treatment with Philosophy the ppt on HCl mutualize to a peakly and treatment with NACO, and rept once of wice if necessary. Proceedings of the avoided to the season Proceedings of the All Metals of the process ZuO should be avoided. It was sepl from Promillarly except that Clywas passed through the hot soin to recording to "" to It "" which was reduced by the added ZuO. Similarly, Iti was sepl from Pr. In this last spin care must be taken to avoid excess should. To this coil the anti- of HCl used should be small and chloride washed out before reppin.



GINZBURG S.I. PSHINITSYN, N.K.; CINZBURG, S.I.

Study of the effect of composition of certain platinum-group complex compounds upon their resistance to hydrolysis. Izv. Sekt. plat. i blag. met. no.28:213-228 '54. (MLRA 7:9) (Platinum group) (Compounds, Complex) (Hydrolysis)





USSF/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61847

· Friday Mil Now to 3

Author: Pahenitsyn, N. K., Ginzburg, S. I.

Institution: None

> Title: Determination of Palladium by the Method of Potentiometric Titration in the Presence of Platinum

Original

Periodical: Izv. Sektora platiny IONKh AN SSSR, 1955, No 32, 31-37

Abstract: Potenticmetric titration (PT) of a solution of complex palladium chloride (I) in 0.15-0.3 N H2SO4 with a solution of KJ is conducted at room temperature in CO2 atmosphere, using a palladium electrode as indicator electrode. Beginning with a certain definite concentration of /PtCl6/2- admixture in I there appears on the PT curves a minimum from the position of which is determined the end point of titration of I. However as the content of Pt in the solution in-

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USST/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61847

Abstract: of Pd a determination of the latter is no longer possible. In such cases the influence of any amount of Pt is eliminated by precipitating it as K2/PtC16/ by addition of K2S04. The precipitate that separates does not interfere with the titration. Error of determination of 20-72 mg Pd by this method as a rule does not exceed 24. With the same degree of accuracy Pd is determined in the presence of Pt by the method of "rapid" titration which is based on the difference in rate of interaction of complex chlorides of Pd and Pt with KJ. With /PtC16/2- KJ reacts much more slowly than with I. In this method titration is carried out as rapidly as possible without waiting for a constant value of the potential.

GINZBURG, SI

PSHENITSYN, N.K.; GINZBURG, S.I.

Study of the reduction reactions of the hydroxopentachloride of tetravalent ruthenium -- K₂[RuOHCl₅]. Zhur. neorg. khim. 2 no.1: 112-120 Ja ¹57. (MLRA 10:4)

l. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR.

(Ruthenium compounds) (Complex compounds)

18(6) PHASE I BOOK EXPLOITATION SOV/3199

- Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova
- Analiz blagorodnykh metallov (Analysis of Noble Metals) Moscow, 1959. 193 p. Errata slip inserted. 2,700 copies printed.
 - Resp. Ed.: N. K. Pshenitsyn, USSR Academy of Sciences, Corresponding Member; and O. Ye. Zvyagintsev, Doctor of Chemical Sciences; Eds. of Publishing Houses: T. G. Levi, and D. N. Trifonov; Tech. Ed.: I. N. Guseva.
 - PURPOSE: This collection of articles is for scientists engaged in the study and analysis of the noble metals.
 - COVERAGE: This is a collection of articles on the analysis of the noble metals. It includes studies carried out by the Institute of General and Inorganic Chemistry im. N. S. Kurnakov (AN SSSR), as well as reports presented by scientific research organizations and by industrial enterprises at the Third and Fourth Conference on Noble Metals held in 1954 and 1957, respectively. The

Card 1/7

studies and reports describe new organic reagents for gravimetric determination of platinum metals, and physicochemical methods of analysis (spectrophotometric, polarographic and potentiometric). Special attention is given to spectral analysis for the determination of admixtures in alloys of platinum metals, silver, and gold, as well as in refined noble metals. The collection also includes analytical methods, tables and charts for materials containing metals of the platinum group, as well as a review of the literature on the analysis of platinum metals published in the last five years. No personalities are mentioned. References follow each chapter.

TABLE OF CONTENTS

Foreword

3

Pshenitsyn, N. K., S. I. Ginzburg and K. A. Gladyshevskaya. New Methods for the Analysis of Platinum Metals

5

Pshenitsyn, N. K., I. V. Prokof'yev and A. Ye. Kalinina.

Card 2/7

Analysis of Noble Metals (Cont.) SOV/3199	
Use of Thiourea for the Concentration of Platinum Metals	15
Pshenitsyn, N. K. and N. V. Fedorenko. Use of Nitrogen Substituted Salts of Dithiocarbamic Acids for the Determi- nation of Platinum Metals	23
Pshenitsyn, N. K., M. I. Yuz'ko and L. G. Sal'skaya. Determination of Platinum, Palladium and Gold in Refined Silver	29
Pshenitsyn, N. K. and M. I. Yuz'ko. Spectrophotometric Determination of Rhodium With the Aid of Potassium Iodide	37
Pshenitsyn, N. K., S.I. Ginzburg and L. G. Sal'skaya. Determination of Iridium in Sulfuric Acid Solutions by Spectrophotometric and Potentiometric Methods	48
Aleksandrov, V. A. Photocolorimetric Method for the Determination of Rhodium in the Presence of Platinum	59

Card 3/7

Analysis of Noble Metals (Cont.)	SOV/3199	
·	·	
Levian, B. G. and T. P. Yufa. Photocolorimetric Used in the Analysis of Platinum Metals	Methods	65
Pshenitayn, N. K., N. A. Yezerskaya and V. D. Re Polarographic Determination of Base Metal Admixtu Refined Iridium	ithikova. ir e s in	70
Muromtsev, B. A. (Deceased) and V. D. Ratnikova. nation of Base Metals in Refined Silver Bardin, M S. Lyalikov and V. S. Temyarko. Polarographic I of Certain Noble Metals by Using Platinum Electro	M. B., Yu.	80
Anisimov, S. M., P. G. Shulakov, V. N. Alyanchiko Klypenkov and P. A. Gurin. Chemical and Polarog Methods for the Determination of Copper, Nickel, and Lead by Using a Cationite in Products Contain Metals	ova, V. M. graphic	88
Pshenitsyn, N. K., K. A. Gladyshevskaya and L. N	. Ryakhova.	
Card 4/7		

Analysis of Noble Metals (Cont.) SOV/3199	
Use of the Ion Exchange Method in the Analysis of Platinum Metals. Report 2. Separation of Rhodium from Iridium	m 103
Anisimov, S. M., Ye. I. Nikitina and V. N. Alyanchikova. Methods of Preparing Poor Industrial Solutions and Obtain From Them Cemented Substances for the Determination of	ing
Platinum Metals by Spectral Analysis	115
Khrapay, V. P. Spectral Method for the Determination of Platinum, Palladium, and Tellurium in Silver-gold Alloys	128
Pankratova, N. I. and A. D. Gut'ko. Spectral Method of Analysis for Refined Iridium and Ruthenium	133
Kuranov, A. A., N. P. Ruksha and M. M. Sviridova. Spec Determination of Admixtures in Gold, Silver and Alloys	tral 139
Kuranov, A. A. Spectral Analysis of Platinum Alloys Containing Three Components	143
Card 5/7	

Analysis of Noble Metals (Cont.)	SPV/3199
Adakhovskiy, A. P. and V. M. Karbolin. Determin Chemical Composition of Binary Alleys by the Ther motive Force	ing the rmoelectro- 145
Avilor, V. B. Effect of Complexation and of the alkali Balance in the Medium on the Potential of	
Au ^{III} /Au ^o , Au ^I /Au ^o , Au ^{III} /Au ^I , and Ag ^I /Ag ^o Syste	ms 150
Avilov, V. B. and V. V. Kosova. Chromatometric of Gold	Determination 156
Anisimov, S. M., V. M. Klypenkov and V. P. Tsymbel Electrometric Method for the Determination of Sil Silver and Lead Alloys Containing Platinum Metals	lver in
Yufa, T. P. and M. A. Chentsova. Dissolving Plat Metals and Their Alloys With the Aid of an Altern Current Card 6/7	

Analysis of Noble Metals (Cont.)	10V/3199
Chentsova, M. A., T. P. Yufa and V. G. Levian. N Method for the Analysis of Palladium-silver Alloys	
Ruzhnikov, M. S. and K. S. Sheina. Methods of Tes Palladium Alloys and Their Products on a Touchston and by Chemical Means	201
AVAILABLE: Library of Congress	184

Card 7/7

TM/mmh 3-4-60 5(4)

SOV/78-4-2-10/40

AUTHORS:

Pahenitsyn, N. K., Ginzburg, S. I., Sal'skaya, L. G.

TITLE:

Investigation of the Oxidation Reaction of Iridium (III) in Solutions of Sulfuric, Phosphoric, and Perchloric Acid (Izucheniye reaktsii okisleniya iridiya (III) v rastvorakh

sernoy, fosfornoy i khlornoy kislot)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2,

pp 301-313 (USSR)

ABSTRACT:

The oxidation of iridium (III) with cerium (IV) sulfate, sodium bismuthate, perchloric acid, and potassium bichromate in concentrated solutions of sulfuric acid, diluted sulfuric acid, and concentrated phosphoric acid was investigated. The following compounds were used as initial reagents: standard solutions H2 [IrCl6] of various concentrations; standard

solutions $Ce(SO_4)_2$ (0.1-0.04 N), $K_2Cr_2O_7$ (0.1-0.04 N); NaBiO₃,

chemically pure; HClO5, 50%; H3PO4, 60%; H2SO4 (specific

gravity 1.84). The investigation of the oxidation reaction was carried out by means of the absorption spectra and the

Card 1/4

Investigation of the Oxidation Reaction of Iridium (III) in Solutions of Sulfuric, Phosphoric, and Perchloric Acid

potentiometric titration of the solutions by Mohr's salt. It was found that the oxidation reaction of iridium (III) mainly depends on the concentrations of sulfuric acid and phosphoric acid, respectively. In concentrated solutions of these acids blue solutions are formed, independent of the oxidizer, with characteristic absorption spectra with an absorption maximum at 570 mm. These solutions contain iridium (IV) in the form of a complex anion with the addenda SO_4^{2-} or PO_4^{3-} . The same characteristics of phosphoric acid and sulfuric acid show that these complex compounds contain the same characteristics.

characteristics of phosphoric acid and sulfuric acid show that these complex compounds contain the same chromophoric group. On the oxidation of iridium (III) red solutions are formed in weak solutions of sulfuric and phosphoric acid and in perchleric acid, which have characteristic spectra with an absorption maximum at 500 m μ . The separation of the products formed did not prove successful. It may be presumed that these compounds contain iridium (IV) as a hydrated cation. The hydrated complex is stable in acid media only and with an increase of pH in the solution it becomes a hydroxo compound which is separated as iridium hydroxide.

Card 2/4